

WHAT IS CLAIMED IS:

1. An image pickup apparatus of a retractable lens barrel type, comprising:

a casing;

a lens barrel provided on said casing and having an image pickup optical system accommodated therein;

said lens barrel being movable between a projecting position in which said lens barrel projects most forwardly of said casing and an accommodated position in which said lens barrel is accommodated within said casing;

an annular adapter ring attachment portion provided on said casing in such a manner as to surround said lens barrel;

detection means for detecting that an adapter ring is attached to said adapter ring attachment portion; and

lens barrel control means for controlling the projection amount of said lens barrel in response to a result of the detection of said detection means;

the control of the projection amount of said lens barrel by said lens barrel control means being performed within a range within which a front end of said lens barrel is positioned rearwardly of a front end of the adapter ring while the adapter ring is attached to said

adapter ring attachment portion.

2. An image pickup apparatus according to claim 1, wherein said adapter ring attachment portion is formed from a first female screw while a rear end attachment portion to which said adapter ring attachment portion is attached is formed at a rear end portion of said adapter ring, and an optical member attachment portion to which an optical member such as a conversion lens or a filter is to be attached is formed at a front end portion of the adapter ring, said rear end attachment portion being formed from a first male screw for being screwed into said first female screw, said optical member attachment portion being formed from a second female screw for being screwed with a threaded portion of the optical member such as a conversion lens or a filter, said first female screw and said first male screw being formed from double threaded screws while said second female screw is formed from a single threaded screw.

3. An image pickup apparatus according to claim 1, wherein, where the adapter ring is attached to said adapter ring attachment portion, the front end of the adapter ring is positioned rearwardly of the projected position of said lens barrel.

4. An image pickup apparatus according to claim 1,

wherein said image pickup optical system is formed from a zoom lens and said lens barrel is controlled so that the projection amount of said lens barrel is varied in response to a zooming ratio of said image pickup optical system, the projection amount of said lens barrel being controlled by said lens barrel control means so that said lens barrel projects with a projection amount with which the zooming ratio of said image pickup optical system exhibits the most wide angle side value while the adapter ring is attached to said adapter ring attachment portion.

5. An image pickup apparatus according to claim 1, wherein said image pickup optical system is formed from a zoom lens and the adapter ring is configured such that, where the adapter ring is attached to said adapter ring attachment portion and the zooming ratio of said image pickup optical system exhibits the most wide angle side value, said image pickup optical system does not suffer from an eclipse.

6. An image pickup apparatus according to claim 1, wherein said conversion lens is a wide conversion lens which changes the angle of view of said image pickup optical system to the wide angle side.